# EXHIBIT H

# **AMD**

# WAFER FAB GROUP

2001 BUDGET

2001–2003 3-YEAR PLAN



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Advanced Micro Devices, Inc.

3 Year Plan Commentary

Wafer Fabrication Group

December, 2000



#### **Wafer Fabrication Group**

Filed 11/21/2006

#### 3 Year Plan Commentary

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### 1. Executive Summary

Overview: Mission, Capabilities, Current Situation and Summary of WFG's Strategy to Win

The mission of the Wafer Fabrication Group (WFG) is to provide wafer production support to the Computation Products Group (CPG) and the Memory Group (MG) that meets their performance, volume, cost, quality and service requirements.

The WFG consists of the Fab 14/15 and Fab 25 in Austin, Texas, Fujitsu/AMD Joint Venture (FASL I, II, IIII, Iwate and GMD, in Gresham, Oregon), AMD Saxony Manufacturing GmbH (Fab 30, Dresden, Germany) and external suppliers (Epson, Motorola, Sony, TSMC, UMC and IBM).

The most important priorities facing wafer fabrication in 2001 will be the continued successful ramp of Fab 30, while preparing the next-generation  $0.13\mu$  HiP7 technology for Athlon and Hammer products; the supply of Athlon product (mostly Duron) from Fab 25 at the proper speed mix, while supporting the transistor development to increase the frequency performance to ~ 2 Ghz by yearend and enabling a low power mobile part in 1Q2001; and, build out of sufficient Flash capacity (JV3, GMD) to stabilize/grow market share, while ramping into production the next-generation CS59 (0.18 $\mu$ ) technology for high density NOR Flash products.

One of the most critical strategic issues is the definition of a capacity plan that matches the technology and volume requirements of CPG. The microprocessor unit demand fully utilizes Fabs 25 and 30 through 2001 and most of 2002, but is significantly short of full utilization of Fab 25 (<50%) in 2003.

The plan capacity had been built around a strategy to convert Fab 25 to copper/0.13µ technology to provide sufficient volume capability through 2003 and beyond. However, this plan will be abandoned in favor of converting Fab 25 to Flash production, starting in 2002. As a result, microprocessors unit volume requirements that cannot be satisfied by Fab 30 alone will be met by external foundries, starting in 2002. Finally, the need for additional capacity beyond the three year horizon is expected to be met by a new facility (Fab 35), currently in the planning phase.

Wafer fabrication at AMD has advanced to the level that few, if any, in this industry have achieved. Fab 25 performs at high volumes and high yields, while exhibiting extraordinary flexibility to move the process to the "edge" of process capability, with good control. On-line process development, alongside volume production, enables more rapid technology and product performance advancements, and has played a major role in AMD's ability to achieve the edge over Intel. This capability has been transferred to Fab 30, with similar results already being achieved.

Combining high volume, cost effective manufacturing, with heavy development focus, and outstanding manufacturing control, has become a hallmark of AMD wafer fabrication.

#### 1.1 Fab 14/15

Fab 14/15 mission is to support AMD's business segments requiring a complex mix of CMOS Logic, High Density Programmable Logic, Non-Volatile Memory, and BiPolar. Internal customers supported by Fab 14/15 include Network Products Division (NPD), Embedded Products Division (EPD), and Non-Volatile Memory Division (NVD). External customers include Lattice and Legerity. Based on current demands from these customers, Fab 14/15 is at or near capacity for the next 3 years.

The 2001 focus will be the ramp of the Bipolar HV-4 and the development and initial production ramp of the Bipolar HV-7 technologies for Legerity.

Fab 14/15 will transition from 56% of its wafer out volume for internal customers to 22% by 2003. Fab 14/15 will continue efforts in wafer cost reductions and quality improvements in order to remain competitive.

#### 1.2 Fab 25

Fab 25 is designed to provide state of the art microprocessors for desktop, mobile, and embedded computing solutions. In addition to its primary thrust in the CPG, Fab 25 also supports logic products for EPD. Output has been ramped to full capacity at 5000 outs/week. The technology transition to 0.18 micron will be complete in 1Q2001. Critical advanced transistor development for Fab 25 and Fab 30 is supported within the Fab 25 organization, with much of this material requiring expedited cycle times. Microprocessor ASP erosion drives continuing emphasis on defect density reduction activities to reduce die cost.

As stated earlier, Fab 25 has been preparing for the introduction of copper/0.13 $\mu$  technology, which is the basis for this budget. However, since the three year microprocessor demand will not sufficiently utilize the installed capacity, Fab 25 will convert to Flash (0.18 $\mu$ ) production, starting in 2002. Detailed plans will be developed in 1Q2001.

#### 1.3 Fab 30

The mission of fab 30 is to be AMD's leading technology high volume microprocessor production fab. Fab 30 supports leading edge microprocessors for CMD/TMD currently using 0.18 micron copper technology, transitioning to 0.13 micron copper technology by 2002. Base technologies are developed in the AMD/Motorola Alliance, with auxiliary development occurring in the SDC. Transistor developments are supported in Fab 30 in close conjunction with transistor development in Fab 25.

Keys to success is the ability to rapidly insert the leading edge technology into production while ramping the fab to full capacity and maintaining the highest yields possible. After achieving initial production output in 2000, Fab 30 will ramp to 140K wafers out in 2001, 220K wafers out in 2002, and 260K wafer outs in 2003.

Primary focus for 2001 will be to execute flawlessly in meeting the production ramp and the technology transition to 0.13 micron. Additional focus must be placed on keeping Athlon competitive in 2001, reaching 2 ghz by 4Q2001 (key strategies are transistor development and Athlon on HiP7), and getting K8 into production (key strategy is implementing HiP7 SOI technology).

The primary competitor to AMD and hence Fab 30 in microprocessors is Intel. Since Intel has much more capital to invest in capacity and development, many more engineers employed in these tasks, and multiple production fabs available for capacity, other key strategies are flexibility and speed. Fab 30 is being equipped "just in time", i.e. equipment is being purchased at the last possible moment to enable the most advanced equipment to be selected and installed. Systems have been developed and deployed to allow the process technology in Fab 30 to be quickly and frequently changed as technology is developed and learned. Significant investments in factory systems, in-line process control, advanced process control, and, of course, training to be able to use these systems are key elements of the "flexibility and speed" strategy.

#### 1.4 Foundry Services

The mission of Foundry Services is to provide an external manufacturing supply of wafers to those divisions that are not fully supported with internal capacity. Capacity limitations, technological availability, and strategic priority drive the requirement for external support. Historically, AMD's use of foundries was driven by opportunistic capacity not met by internal fabrication. Today, foundries are being positioned to provide capacity such that it may not be necessary to supply 100% of the volume needs internally. This should enable more effective utilization of existing factories, while avoiding capital expenditures.

The role of the Foundry Services organization is to manage the wafer foundry programs from technical feasibility through mature production. In the production phase, Foundry Services is responsible for the schedule and delivery of products from the foundries, while ensuring conformance to quality requirements and cost targets.

The foundry network consists of:

**Epson**. Epson will continue production through the year 2001 at the Fujimi Japan production facility on five and six-inch wafer processes in support of the EPD product requirements.

**Foundry for Athlon**. This foundry will provide 0.13-micron microprocessor capacity starting in the year 2002 for the CPG. The purpose is to provide an early source of Athlon product on 0.13µ technology to augment the 0.13µ capacity from Fab 30.

Motorola. Motorola C4 evaporated bump manufacturing capacity will continue to be utilized at the Austin facility until the internal AMD bump capacity can support the total bump requirement. Bump

production at Motorola is planned to continue through 2Q2002, with volumes projected to range between 15K – 25K per quarter.

Sony Semiconductor Company of America. Sony will continue production at its San Antonio production facility through the year 2001 in support of low volume EPD product requirements.

Taiwan Semiconductor Manufacturing Company (TSMC), Taiwan. TSMC will continue production in support of low volume NPD product requirements.

**United Microelectronics Corporation (UMC), Taiwan**. UMC will be used to support NPD, EPD and the Chip Set (PPD) requirements.

#### 1.5 <u>Fab 35</u>

Long-range CPG projections indicate that additional capacity will be needed in the 2004-2005 timeframe. This will be a 300mm factory, and will require substantial advance planning to execute properly.

Fab 35 will likely startup as 100 nanometer technology and will employ the newest manufacturing technology. The plant will be highly automated and will rely heavily on Advanced Process Control and manufacturing systems currently under development in WFG.

This project will undoubtedly require a partner, to share the initial investment and absorb the capacity. Partner options are numerous but priority must be given to a technology partner. Location options are many, depending on partner; strong preference is to locate Fab 35 in Austin area, to capitalize on existing manufacturing know-how and proximity to the product line.

#### 1.6 Fujitsu AMD Semiconductor, Ltd. (FASL) I, II, III

The mission of FASL is to be the cost effective volume producer of AMD and Fujitsu jointly developed flash products in support of Memory Group.

The FASL strategy is to leverage process technology, innovative products and manufacturing technology enabling AMD and Fujitsu to be the leaders in the flash memory business. FASL will support the entire technology portfolio of products...floating gate (CS59S) for high speed NOR, NROM (CS99) for low cost NOR, and NAND (CS59N) for mass storage applications.

FASL I is the volume Fab for 0.35 micron NOR products and is operating at full capacity of 7500 production starts per week. Over time, a portion of the volume will be converted to CS-99 for low-density products.

FASL II is nearing full volume (6000 wafer starts per week) of predominantly CS-49S NOR technology and a small volume of CS-49N NAND technology. Development work is currently underway for both the CS-99 NROM technology and CS-59S floating gate technology. When development is complete, the CS-

### 3.2 Advanced CMOS Logic Support - Fab 25/Fab 30

#### Wafers Out (k) 200mm

DIVISION
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	1Q01	2Q01	3Q01	4004	2004	0000	
CMD/TMD	85.9	88.1	96.8	<u>4Q01</u> 94.6	2001	2002	2003
EPD	1.8				365.4	426.2	364.6
LATTICE		2.9	3.7	3.9	12.3	17.5	15.1
TOTAL	0.1	~ 0.0	0.0	0.0	0.1	0.0	0.0
IOIAL	87.8	91.0	100.5	98.5	377.8	443.7	379.7
TECHNOLOGY							
	1Q01	2Q01	3Q01	4Q01	2001	2002	2003
CS-34 (3LM, 0.35u)	1.5	1.6	2.1	2.0	7.2	6.2	4.6
CS-44E72 (5LM, 0.25u)	5.4	0.7	0.6	0.6	7.3	1.9	1.2
CS-50/H6 (6LM, 0.18u)	54.8	56.1	59.4	59.1	229.4	188.7	11.9
EE7 (3LM, 0.25u)	0.1	0.0	0.0	0.0	0.1	0.0	0.0
HiP7L-bulk (7LM, 0.13u)	0.0	0.0	0.0	0.0	0.0	34.4	105.3
Fab 25 TOTAL	61.8	58.4	62.1	61.7	244.0	231.2	123.0
HiP6L (6LM, 0.18u)	26.0	32.6	38.4	36.8	133.8	107.4	0.0
HiP68 (9LM, 0.13u)	0.0	0.0	0.0	0.0	0.0	11.8	0.0
HiP7L-bulk (7LM, 0.13u)	0.0	0.0	0.0	0.0	0.0	59.7	66.6
HiP7L-SOI (9LM, 0.13u)	0.0	0.0	0.0	0.0	0.0	33.7	190.1
Fab 30 TOTAL	26.0	32.6	38.4	36.8	133.8	212.6	256.7
TOTAL			-				
Fab 25 Capacity Utilization	98%	93%	99%	99%	97%	95%	51%
Fab 30 Capacity Utilization	100%	100%	100%	100%	100%	100%	100%

#### 3.3 Foundries Support

DIVISION							
	1Q01	2Q01	3Q01	4Q01	2001	2002	2003
CMD/TMD	0.0	0.0	0.0	0.0	0.0	16.9	0.0
EPD	1.0	1.4	1.5	1.6	5.5	7.2	9.3
NPD	0.7	1.1	1.1	1.2	4.1	4.9	8.0
PPD	9.4	11.4	10.0	6.7	37.5	31.4	105.8
TOTAL	11.1	13.9	12.6	9.5	47.1	60.4	123.1
TECHNOLOGY	•						
_	1Q01	2Q01	3Q01	4Q01	2001	2002	2003
0.13u	0.0	0.0	0.0	0.0	0.0	16.9	0.0
0.18u 1P5M	0.0	0.0	0.0	0.2	0.2	6.4	4.8
0.18u 1P6M	0.0	0.0	0.0	0.0	0.0	5.2	71.8
0.18u 5LM	0.0	0.0	0.0	0.0	0.0	0.4	0.9
0.18u 6LM	0.0	0.0	0.0	0.0	0.0	0.6	3.8
0.25u 1P4M	9.5	10.2	8.8	6.0	34.5	24.6	36.0
0.25u 1P5M	0.0	1.3	1.6	1.4	4.3	0.7	0.5
0.32u 1P3M	0.2	0.3	0.4	0.5	1.4	1.7	1.7
0.35u 1P3M	8.0	1.5	1.4	1.1	4.8	3.4	3.2
0.35u 2P3M	0.0	0.1	0.1	0.1	0.3	0.5	0.4
IMOX2	0.3	0.2	0.0	0.0	0.5	0.0	0.0
IMOX2S	0.2	0.1	0.0	0.0	0.3	0.0	0.0
LS	0.0	0.1	0.2	0.1	0.4	0.0	0.0
SMS12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SMSSDL	0.1	0.1	0.1	0.1	0.4	0.0	0.0
TOTAL	11.1	13.9	12.6	9.5	47.1	60.4	123.1
CAPACITY UTILIZATON	100%	100%	100%	100%	100%	100%	100%
<u>FOUNDRIES</u>							
	1Q01	2Q01	3Q01	4Q01	2001	2002	2003
EPSON	0.1	0.1	0.1	0.1	0.4	0.0	0.0
FOUNDRY #1	0.0	0.0	0.0	0.0	0.0	16.9	0.0
SONY	0.6	0.4	0.2	0.1	1.3	0.0	0.0
TSMC	0.0	0.1	0.1	0.1	0.3	0.5	0.4
UMC-FAB8A	0.9	1.3	1.4	1.4	5.0	4.8	4.2
UMC-FAB8B	9.5	12.0	10.8	7.8	40.1	38.2	118.5
TOTAL	11.1	13.9	12.6	9.5	47.1	60.4	123.1



#### WAFER FABRICATION GROUP

#### 2001-2003 INDICES

#### Version 1.0 Initial Version 10/10/00

#### Fab 25:

- Copper process initiated in 1Q02
- Plated Bump processing initiated in 4Q02

#### Fab 30

Plated Bump processing initiated in 4Q01

#### Version 2.0 12/04/00

Plan of Record for Budget/R12O

#### Fab 14/15:

#### Capacity

HV-7: Assumes sort equipment/hardware is compatible with HV-4. Trench Etch limited to a single machine.

#### Fab 25:

#### Capacity

- Removed projected support of HiP7L-SOI.
- Copper process initiated in 2Q02.
- Plated Bump schedule for 3Q02.

#### Defect Density Yspeed

- CS-50/H6 Yspeed modified to 0.85 in Yr2001 and 0.70 in Yr2002 -Yr2003.
- HiP7L-BULK Yspeed modified to 0.70 in Yr2002 Yr2003

#### Sort Yield

Modified NDW/Sort Yield

#### Wafer Transfer Price

Added Wafer Transfer Prices for Plated Bump.

#### Capital Delivery

Added Continuous Improvement, FMEA, and Technology.

#### Fab 30:

#### Capacity

- HiP7-BULK: Projected for 1Q02.
- HiP7-SOI: Projected for 3Q02.
- Bump Evap scheduled for 4Q01.
- Bump Plated scheduled for 3Q02.

#### Defect Density Yspeed

All Yspeed changed to 0.70 except "Hammers", which were changed to

#### Sort Yield

- Changed "Tackhammer" HiP7-SOI die size from 76 mm2 to 87 mm2.
- Changed "Sledgehammer" HiP7-SOI die size from 250 mm2 to 148 mm2.

12/04/00

#### Fab8B

#### Sort Yield

- Modified NDW/Sort Yield
- Separated Golem A/B.
- Added Anvil.

#### 0.13u Foundry #1

#### Capacity

Modified to align to present required support.

#### **Bump Capacity**

#### Capacity

- Modified to reflect no IBM support.
- Additional modifications to all support areas.

#### Wafer Transfer Price

• Added Fab 25 and Fab 30 Plated.

#### **FASL**

- Inputs for 1Q01 4Q01: Per FASL R6Q commitments
- Inputs for 1Q02 4Q03: Per FASL Business Plan JV4 200mm ver1.0

WFG	Strat	egic Pla	nning			
2001 -	2003	<b>Indices</b>	Version	2.0	Table of	Contents
12/04/						

## **AMD**

Fab 14/15	4
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UMC-Fab8B	44
Sony	46
Epson	48
rsmc	50
0.13 Micron MP Foundry	51
Bump Capacity	51 52

#### FAB 25 3-YEAR PLAN FAB CAPACITY (K - 8" WAFERS)

	1Q01	2Q01	3Q01	4Q01	2001	1Q02	2Q02	3Q02	4Q02	2002	1Q03	2Q03	3Q03	4Q03	2003
CS-34 (3LM)	2.5	2.5	2.5	2.5	10.0	2.5	2.5	2.5	2.5	10.0	1.5	1.5	1.5	1.5	6.0
CS-44E72(5LM)	1.0	1.0	1.0	1.0	4.0	1.0	1.0	1.0	1.0	4.0	1.0	1.0	1.0	1.0	4.0
CS-50/H6 (6LM)	59.0	59.0	59.0	59.0	236.0	59.0	54.4	44.4	36.6	194.4	30,9	30.9	27.1	24.0	112.9
EE7 (3LM)	0.5	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HiP7L-bulk (7LM)	0.0	0.0	0.0	0.0	0.0	0.0	2.0	12.0	20.0	34.0	27.0	27.0	30.0	35.0	119.0
TOTAL	63.0	62.5	62.5	62.5	250.5	62.5	59.9	59.9	60.1	242.4	60.4	60.4	59.6	61.5	241.9
Work Weeks	13.0	13.0	13.0	13.0	52.0	13.0	13.0	13.0	13.0	52.0	13.0	13.0	13.0	13.0	52.0

#### FAB 25 3-YEAR PLAN DEFECT DENSITY (Do/Sq In)

	1Q01	2Q01	3Q01	4Q01	2001	1Q02	2Q02	3Q02	4Q02	2002	1Q03	2Q03	3Q03	4Q03	2003
CS-34 (3LM)	2.43	2.40	2.38	2.35	2.39	2.33	2.31	2.28	2.26	2.30	2.24	2.22	2.19	2.17	2.21
CS-44E72(5LM)	1.62	1.52	1.45	1.37	1.49	1.33	1.29	1.25	1.22	1.27	1.20	1.19	1.18	1.17	1.19
CS-50/H6 (6LM)	2.70	2.54	2.41	2.29	2.49	2.18	2.09	2.01	1.95	2.06	1.89	1.83	1.78	1.72	1.81
HiP7L-bulk (7LM)	0.00	0.00	0.00	0.00	0.00	0.00	2.70	2.43	2.19	2.44	1.97	1.85	1.74	1.63	1.80

#### FAB 25 3-YEAR PLAN DEFECT DENSITY (Yspeed)

	1Q01	2Q01	3Q01	4Q01	2001	1Q02	2Q02	3Q02	4Q02	2002	1Q03	2Q03	3Q03	4Q03	2003
CS-34 (3LM)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
CS-44E72(5LM)	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
CS-50/H6 (6LM)	0.85	0.85	0.85	0.85	0.85	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
HiP7L-bulk (7LM)	0.00	0.00	0.00	0.00	0.00	0.00	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70

#### FAB 25 3-YEAR PLAN DEFECT DENSITY (Yprocess)

	1Q01	2Q01	3Q01	4Q01	2001	1Q02	2Q02	3Q02	4Q02	2002	1003	2003	3003	4003	2003
CS-34 (3LM)	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99
CS-44E72(5LM)	0.89	0.89	0.90	0.90	0.90	0.91	0.91	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
CS-50/H6 (6LM)	0.90	0.92	0.92	0.93	0.92	0.94	0.94	0.95	0.95	0.95	0.96	0.96	0.97	0.97	0.97
HiP7L-bulk (7LM)	0.00	0.00	0.00	0.00	0.00	0.00	0.79	0.82	0.84	0.82	0.87	0.89	0.90	0.91	0.89

#### FAB 25 3-YEAR PLAN DEFECT DENSITY (Ytotal)

	1Q01	2Q01	3Q01	4Q01	2001	1Q02	2Q02	3Q02	4002	2002	1003	2003	3003	4003	2003
CS-34 (3LM)	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	•			
CS-44E72(5LM)	0.86	0.86	0.87	0.87	0.87	0.88	0.88			****		0.99	0.99	0.99	0.99
CS-50/H6 (6LM)	0.77	0.78	0.78					0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
				0.79	0.78	0.66	0.66	0.67	0.67	0.67	0.67	0.67	0.68	0.68	0.68
HiP7L-bulk (7LM)	0.00	0.00	0.00	0.00	0.00	0.00	0.55	0.57	0.59	0.57	0.61	0.62	0.63	0.64	0.63

#### FAB 25 3-YEAR PLAN CYCLE TIME-FAB (DAYS)

	1Q01	2Q01	3Q01	4Q01	2001	1Q02	2Q02	3Q02	4Q02	2002	1003	2003	3003	4003	2003
CS-34 (3LM)	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	
CS-44E72(5LM)	56.0	63.0	63.0	63.0	61.3	63.0	63.0	63.0	63.0	63.0	63.0	63.0			70.0
CS-50/H6 (6LM)	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0				63.0	63.0	63.0
EE7 (3LM)	98.0	0.0	0.0	0.0	98.0	0.0	0.0			63.0	63.0	63.0	70.0	70.0	66.5
HiP7L-bulk (7LM)	0.0	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Does not include either Wafe					0.0	0.0	70.0	63.0	63.0	65.3	63.0	63.0	63.0	63.0	63.0

### FAB 25 3-YEAR PLAN PROCESS YIELD (%)

	1Q01	2Q01	3Q01	4Q01	2001	1Q02	2Q02	3Q02	4Q02	2002	1003	2003	3003	4003	2003
CS-34 (3LM)	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
CS-44E72(5LM)	95.0	93.0	93.0	93.0	93.5	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
CS-50/H6 (6LM)	94.0	95.0	95.0	95.0	94.8	95.0	95.0	95.0	95.0	95.0	95.0	95.0	93.0	93.0	94.0
EE7 (3LM)	90.0	0.0	0.0	0.0	90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HiP7L-bulk (7LM)	0.0	0.0	0.0	0.0	0.0	0.0	85.0	90.0	91.0	88.7	92.0	93.0	94.0	95.0	93.5

#### FAB 25 3-YEAR PLAN SORT YIELD (NDW - 8" WAFERS)

	Die	Die			-		rmerry (	111111	0 112	TI EKO	,				
	Size Sq Mil	Size mm2	Gross Die	1001	2001	2001	4004								
CMD/TMD	od win	mmz	Die	1Q01	2Q01	3Q01	4Q01	1Q02	2Q02	3Q02	4Q02	1Q03	2Q03	3Q03	4Q03
CS-44E72 (5LM)															
K6-2	122	79	310	180	180										
CS-50/H6 (6LM)															
K7-Duron -64K (Hot)	153	99	249	100	141	146	149	***							
K7-Duron -64K (V Hot)	153	99	249					127	129	132	132	124	125	100	
K7-Morgan -64K (Hot)	162	105	234	125	131	135	138		127	132		134	135	137	139
K7-Morgan -64K (V Hot)	162	105	234					118	120	122	100	104	104		
K7-Thunderbird -256K (Hot)	183	118	195	75	105	109	111				122	124	126	128	129
K7-Thunderbird -256K (V	183	118	195					96	97	99					***
HiP7L-bulk (7LM)								. , 20	91	99	99 .	101	102	104	105
K7-Morgan	109	70	363		-				159	170	100				
EPD									139	170	179	187	193	199	203
CS-34 (3LM)															
15040AR	103	66	398	300	300	300	300	300	300	300	200	000			
29248CQ	65	42	638	550	550	550	550	550	550		300	300	300	300	300
48603AQ	65	42	602	520	520	520	520	520	520	550	550	550	550	550	550
CS-44E72 (5LM)			002	340	320	520	320	320	320	520	520	520	520	520	520
K6-2	122	79	310	230	231	235	237	238	240	241	0.40	• • •			
CS-50 (6LM)		• •	0.0	200	231	433	231	230	240	241	242	242	242	243	243
K6-2+	115	74	316	192	195	197	199	200	202	203	204	004			
K7-Morgan	162	105	234	142	148	152	155	159	162	203 165	204	204	205	206	207
K7-Palomino	197	127	192	108	113	117	120	123	125		166	169	170	173	175
				.00	113	11/	120	123	123	129	129	132	133	136	137

#### FAB 25 3-YEAR PLAN SORT YIELD (% - 8" WAFERS)

	Die Size	Die Size	Gross					(-, -							
	Sq Mil	mm2	Die	1Q01	2Q01	3Q01	4Q01	1Q02	2Q02	3Q02	4Q02	1Q03	2Q03	3Q03	4Q03
CMD/TMD										-					1400
CS-44E72 (5LM)															
K6-2	122	79	310	58	58										
CS-50/H6 (6LM)												***			
K7-Duron -64K (Hot)	153	99	249	40	57	59	60								
K7-Duron -64K (V Hot)	153	99	249					51	52	53	53	54	54		
K7-Morgan -64K (Hot)	162	105	234	53	56	58	59		52			34	34	55	56
K7-Morgan -64K (V Hot)	162	105	234					50	51	52	52				
K7-Thunderbird -256K (Hot)	183	118	195	38	54	56	57					53	54	55	55
K7-Thunderbird -256K (V	183	118	195					49	50	51	~				
HiP7L-bulk (7LM)								47	30	31	51	52	52	53	54
K7-Morgan	109	70	363						44	47	40				
EPD		. •							44	4/	49	52	53	55	56
CS-34 (3LM)															
15040AR	103	66	398	75	75	75	75	75	75	75	20				
29248CQ	65	42	638	86	86	86	86	86	73 86	75 86	75	75	75	75	75
48603AQ	65	42	602	86	86	86	86	86			86	86	86	86	86
CS-44E72 (5LM)			002	00	00	80	80	80	86	86	86	86	86	86	86
K6-2	122	79	310	74	75	76	76	77	77	70	=0				
CS-50 (6LM)		,,	510	/ -	15	70	70	11	//	78	78	78	78	78	78
K6-2+	115	74	316	61	62	62	63	63	64	64	c è				
K7-Morgan	162	105	234	61	63	65	66	68	69		65	65	65	65	66
K7-Palomino	197	127	192	56	59	61	63			71	71	72	73	74	75
	.,,	/	172	20	39	01	03	64	65	67	67	69	69	71	71

#### FAB 25 3-YEAR PLAN THREE YEAR TRANSFER PRICES (8" Wafers)

	2001	2002	2003
Bump Price - Evap	130	130	130
Bump Price - Plated	***	500	300
CS-34 (3LM)	1559	1559	1559
CS-44E72 (5LM)	1800	1728	1499
CS-50/H6 (6LM)	2146	2060	1788
EE7 (3LM)	1988		
HiP7L-HD (7LM) Excl. Bump & PI	***	2460	2351
Polymide	25	25	25

#### FAB 25 3-YEAR PLAN CAPITAL DELIVERY (\$M)

	2001	2002	2003
Continuous Improvement	31.7	32.0	32.0
Copper Conversion*	228.8	112.9	24.8
FMEA	3.7	2.0	2.0
Technology	11.3		

<sup>\*</sup> Includes facilities and C4 plating.

#### FAB 30 3-YEAR PLAN FAB CAPACITY (K - 8" WAFERS)

	1Q01	2Q01	3Q01	4Q01	2001	1Q02	2Q02	3Q02	4Q02	2002	1Q03	2Q03	3Q03	4Q03	2003
HIP68 (9LM)	0.0	0.0	0.0	0.0	0.0	3.4	6.0	2.3	0.0	11.8	0.0	0.0	0.0	0.0	0.0
HIP6L (6LM)	26.0	32.6	38.4	36.8	133.8	40.9	37.3	22.5	6.7	107.4	0.0	0.0	0.0	0.0	0.0
HIP7L - bulk (7LM)	0.0	0.0	0.0	0.0	0.0	1.7	9.6	19.5	28.9	59.7	29.0	25.7	11.9	0.0	66.6
HiP7L - SOI (9LM)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.4	23.3	33.7	34.0	38.1	53.1	64.9	190.1
TOTAL	26.0	32.6	38.4	36.8	133.8	46.0	52.8	54.7	58.9	212.5	62.9	63.9	65.0	64.9	256.7
Work Weeks	13.0	13.0	13.0	13.0	52.0	13.0	13.0	13.0	13.0	52.0	13.0	13.0	13.0	13.0	52.0

#### FAB 30 3-YEAR PLAN DEFECT DENSITY (Do/Sq In)

	1Q01	2Q01	3Q01	4Q01	2001	1Q02	2Q02	3Q02	4Q02	2002	1Q03	2Q03	3Q03	4Q03	2003
HIP68 (9LM)	0.00	0.00	0.00	0.00	0.00	1.88	1.69	1.56	1.45	1.65	1.35	1.29	1.27	1.24	1.29
HIP6L (6LM)	1.96	1.77	1.59	1.43	1.69	1.29	1.16	1.09	1.04	1.15	1.02	1.00	1.00	1.00	1.01
HiP7L - bulk (7LM)	0.00	0.00	0.00	0.00	0.00	2.45	2.21	2.03	1.89	2.15	1.75	1.68	1.65	1.62	1.68
HiP7L - SOI (9LM)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.25	2.03	2.14	1.82	1.64	1.51	1.39	1.59

#### FAB 30 3-YEAR PLAN DEFECT DENSITY (Yspeed)

	1Q01	2Q01	3Q01	4Q01	2001	1Q02	2Q02	3Q02	4Q02	2002	1Q03	2Q03	3Q03	4Q03	2003
HIP68 (9LM)	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.85	0,85	0.85	0.85	0.85	0.85	0.85
HIP6L (6LM)	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
HIP7L - bulk (7LM)	0.00	0.00	0.00	0.00	0.00	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
HIP7L - SOI (9LM)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85

#### FAB 30 3-YEAR PLAN DEFECT DENSITY (Yprocess)

	1Q01	2Q01	3Q01	4Q01	2001	1Q02	2Q02	3Q02	4Q02	2002	1Q03	2Q03	3Q03	4Q03	2003
HIP68 (9LM)	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.90	0.90	0.90	0.92	0.92	0.92	0.92	0.92
HIP6L (6LM)	0.88	0.89	0.90	0.90	0.89	0.90	0.91	0.91	0.91	0.91	0.92	0.92	0.92	0.92	0.92
HiP7L - bulk (7LM)	0.00	0.00	0.00	0.00	0.00	0.75	0.85	0.90	0.90	0.85	0.92	0.92	0.92	0.92	0.92
HiP7L - SOI (9LM)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.70	0.80	0.75	0.86	0.92	0.92	0.92	0.91

#### FAB 30 3-YEAR PLAN DEFECT DENSITY (Ytotal)

	1Q01	2Q01	3Q01	4Q01	2001	1Q02	2Q02	3Q02	4Q02	2002	1Q03	2Q03	3Q03	4Q03	2003
HIP68 (9LM)	0.00	0.00	0.00	0.00	0.00	0.77	0.77	0.77	0.77	0.77	0.78	0.78	0.78	0.78	0.78
HIP6L (6LM)	0.62	0.62	0.63	0.63	0.63	0.63	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64
HIP7L - bulk (7LM)	0.00	0.00	0.00	0.00	0.00	0.53	0.60	0.63	0.63	0.60	0.64	0.64	0.64	0.64	0.64
HIP7L - SOI (9LM)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60	0.68	0.64	0.73	0.78	0.78	0.78	0.77

#### FAB 30 3-YEAR PLAN CYCLE TIME-FAB (DAYS)

	1Q01	2Q01	3Q01	4Q01	2001	1Q02	2Q02	3Q02	4Q02	2002	1Q03	2Q03	3Q03	4Q03	2003
HIP68 (9LM)	0.0	0.0	0.0	0.0	0.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
HIP6L (6LM)	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
HIP7L - bulk (7LM)	0.0	0.0	0.0	0.0	0.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
HiP7L - SOI (9LM)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
Does not include either W.	ofon Dumm or	. W/afan 6		Ti											

### FAB 30 3-YEAR PLAN PROCESS YIELD (%)

	1Q01	2Q01	3Q01	4Q01	2001	1Q02	2Q02	3Q02	4Q02	2002	1Q03	2Q03	3Q03	4Q03	2003
HIP68 (9LM)	0.0	0.0	0.0	0.0	0.0	82.5	85.0	87.5	90.0	86.3	90.0	90.0	90.0	90.0	90.0
HIP6L (6LM)	91.0	92.0	93.0	93.0	92.3	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
HIP7L - bulk (7LM)	0.0	0.0	0.0	0.0	0.0	85.0	87.5	90.0	90.0	88.1	90.0	90.0	90.0	90.0	90.0
HiP7L - SOI (9LM)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.0	85.0	82.5	87.5	90.0	90.0	90.0	89.4

#### FAB 30 3-YEAR PLAN SORT YIELD (NDW - 8" WAFERS)

	Die Size Sq Mil	Die Size mm2	Gross Die	1Q01	2Q01	3Q01	4Q01	1Q02	2Q02	3Q02	4Q02	1Q03	2Q03	3Q03	4 <b>Q</b> 03
CMD/TMD HiP68 (9LM)	•											- 200	-400	o Quo	1400
K8-Clawhammer -256K	245	158	152					79	83	85	88	91	93	93	94
K8-Sledgehammer HiP6L (6LM)	388	250	92					40	42	44	46	49	50	50	50
K7-7309A Tb6 -256K	187	121	204	118	99	104	106	107	111	112	113	115	115	115	115
K7-Morgan -64K	164	106	234		113	117	120	123	127	129	130	131	132	132	132
K7-Palomino -256K HiP7L (7LM)	200	129	192	51	88	92	95	97	101	102	103	105	105	105	105
K7-Morgan -64K	109	70	363					152	176	190	192	199	201	202	202
K7-Palomino -256K HiP7L (9LM)	136	88	285					113	132	142	145	151	152	153	153
K8-Clawhammer -256K	146	94	266						****	124	145	157	172	175	178
K8-Sledgehammer	229	148	163							68	80	87	96	98	101
K8-Tackhammer -128K	135	87	289							137	159	173	189	192	195

#### FAB 30 3-YEAR PLAN SORT YIELD (% - 8" WAFERS)

	Die Size Sq Mil	Die Size mm2	Gross Die	1Q01	2Q01	3Q01	4Q01	1Q02	2Q02	3002	4Q02	1Q03	2Q03	3Q03	4003
CMD/TMD HiP68 (9LM)	-			-	•				_ 🕻			- 650	- 400	- Q-00	100
K8-Clawhammer -256K	245	158	152					52	55	56	58	60	61	61	62
K8-Sledgehammer HiP6L (6LM)	388	250	92					43	46	48	50	53	54	54	54
K7-7309A Tb6 -256K	187	121	204	58	49	51	52	52	54	55	55	56	56	56	56
K7-Morgan -64K	164	106	234		48	50	51	53	54	55	56	56	56	56	56
K7-Palomino -256K HiP7L (7LM)	200	129	192	27	46	48	49	51	53	53.	54	55	55	55	55
K7-Morgan -64K	109	70	363				***	42	48	52	53	55	55	56	56
K7-Palomino -256K HiP7L (9LM)	136	88	285				***	40	46	50	51	53	53	54	54
K8-Clawhammer -256K	146	94	266							47	55	59	65	66	67
K8-Sledgehammer	229	148	163							42	49	53	59	60	62
K8-Tackhammer -128K	135	87	289							47	55	60	65	66	67

### FAB 30 3-YEAR PLAN THREE YEAR TRANSFER PRICES (8" Wafers)

	2001	2002	2003
HiP68 (9LM) Excl. Bump & PI		3974	2625
HiP6L (6LM) Excl. Bump & PI	2555	2006	1875
HiP7L - bulk (7LM) Excl. Bump & PI	***	2628	2195
HiP7L - SOI (9LM) Excl. Bump & PI		3300	2509

#### FAB 30 3-YEAR PLAN CAPITAL DELIVERY (\$M)

	2001	2002	2003
Equipment - C4	31.0	10.2	16.4
Equipment - FAB	347.4	175.0	83.1
Facilities	73.0	16.0	6.6
Other	12.4	9.1	83



#### WAFER FABRICATION GROUP

### 2001-2003 WAFER OUT DEMAND/COMMITS

Version 1.0 Based on CPG Plan 044C, not published

Version 2.0 Plan of Record for Budget/R12O 12/04/00

#### Fab 14/15:

- HV4: Demands exceed Commits in 1Q01 3Q01
- HV-7: Assumes sort equipment/hardware is compatible with HV-4. Trench Etch is limited to a single machine.

#### Fab25:

- Demands and Commits are aligned for all periods.
- Copper process initiated in 2Q02
- CPG demands based on Plan 047A

#### Fab30:

- Demands exceed Commits in 3Q01, 4Q01, and 4Q03
- HiP7-BULK: Projected for 1Q02
- HiP7-SOI: Projected for 3Q02
- CPG demands based on Plan 047A
- All capacity fully utilized.

#### Fab8A:

Demands and Commits are aligned for all periods.

#### Fab8B:

- Demands and Commits are aligned for all periods.
- Commits exceed Capacity in Yr2003. Foundry Services will work with UMC to insure support.

#### Sony:

Demands and Commits are aligned for all periods.

#### Epson:

Demands and Commits are aligned for all periods.

#### TSMC:

Demands and Commits are aligned for all periods.

#### 0.13u Foundry #1:

- Based on CPG Plan 047A
- Demands and Commits are aligned for all periods.

#### **FASL:**

Capacity

1Q01 - 4Q01: Per FASL R6Q commitments. 1Q02 - 4Q03: Per FASL Business Plan JV4 200mm ver 1.0 All Capacity fully utilized.

• Demands

Demands Source – Business Plan JV4 200mm ver 1.0 Demands exceed Commits in 1Q01 to 4Q03 on numerous technologies.

New Technologies introduced as follows:

CS-99SB: Projected for 2Q01. CS-59S: Projected for 4Q01. CS-49NSD: Projected for 1Q02. CS-99DB: Projected for 2Q02. CS-59N: Projected for 3Q02. CS-109DBH: Projected for 4Q02.

# WFG Strategic Planning 2001 - 2003 Demand/Commit Version 2.0



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#### TREE-YEAR PLAN FAB 14/15 WAFER OUT DEMANDS (K, 6")

PRODUCT LINE	1001	<u>2001</u>	3Q01	4001	<u> 2001</u>	1002	2002	<u>3002</u>	4002	2002	1003	2002	2002	4000		
EPD TOTAL	7.5	9.3	8.8	7.6		7.0	6.5	6.0				<u>2003</u>	<u>3003</u>	<u>4003</u>	<u>2003</u>	
CS-21	0.2	0.1	0.2	0.1		0.0	0.0	0.0	5.1 0.0	24.6	4.9	5.0	4.7	4.3	19.0	
CS-21S	3.3	4.3	4.1	3.1		2.6	2.6	2.5	2.1	0.0	0.0	0.0	0.0	0.0	0.0	,
CS-22	0.4	0.5	0.5	0.4		0.2	0.2	0.2	0.1	9.8	1.8	1.9	1.8	1.6	7.1	
CS-23	3.7	4.3	4.0	4.0		4.2	3.7	3.3	2.9	0.7	0.0	0.0	0.0	0.0	0.0	,
LATTICE TOTAL	12.0	12.0	12.0	12.0	48.0					14.2	3.2	3.1	2.9	2.7	11.8	,
EE4	1.7	1.5	1.0	1.0		12.0	12.0	12.0	12.0	48.0	12.0	12.0	12.0	12.0	48.0	1
EE5	6.5	6.0	6.0	5.5	5.2	0.8	0.8	0.8	0.8	3.0	0.8	0.8	0.8	0.8	3.0	
EE65	3.9	4.5	5.0	5.5	24.0	3.8	3.8	3.8	3.8	15.0	3.8	3.8	3.8	3.8	15.0	
LEGERITY TOTAL					18.9	7.5	7.5	7.5	7.5	30.0	7.5	7.5	7.5	7.5	30.0	
CS-21	35.3	38.7	41.2	36.6	151.9	37.5	41.7	44.3	45.3	168.7	46.2	47.8	49.7	51.2	194.8	
CS-21ST	5.2	4.7	3.9	2.8	16.6	2.6	2.4	2.5	2.5	10.0	2.4	2.4	2.4	2,4	9.7	
CS-2131 CS-23	2.0	2.2	2.0	1.8	<i>8.1</i>	2.1	1.9	1.8	1.8	7.5	1.8	1.8	1.8	1.7	7.1	
HV4	13.0	13.1	12.6	11.2	50.0	13.3	12.5	12.5	12.6	50.9	12.1	12.2	12.3	12.0	48.5	
HV4+	13.5	15.6	17.1	14.6	60.7	10.5	10.7	10.0	9.8	40.9	9.8	10.0	10.1	10.2	40.0	
HV7	1.3	0.9	1.1	1.3	4.5	4.0	8.9	11.8	12.6	37.3	13.6	14.6	15.7	16.9	60.7	
	0.3	2.2	4.5	4.9	12.0	5.0	5.3	5.7	6.0	22.0	6.5	6.9	7.5	8.0	28.8	
NPD TOTAL	13.1	12.9	12.4	12.1	50.5	9.6	9.5	8.9	8.9	36.8	7.8	7.8	7.3	7.3	30.1	
CS-21	0.2	0.2	0.2	0.2	0.8	0.2	0.2	0.2	0.2	0.6	0.2	0.2	0.1	0.1	0.6	
CS-21S	12.9	12.7	12.2	11.9	49.7	9.4	9.4	8.7	8.7	36.2	7.6	7.6	7.2	7.2	29.5	
NVD TOTAL	7.0	5.3	7.0	6.8	26.1	5.0	5.1	5.3	5.1	20.5	5.0	5.0	5.0			
CS-19A/AR	0.5	0.7	0.9	0.7	2.8	0.7	0.0	0.0	0.0	0.7	0.8	0.8		5.0	20.0	
CS-19B	1.6	1.6	1.8	2.1	7.2	2.2	3.0	2.9	3.0	11.0	4.2	4.2	0.8 4.2	0.8	3.2	
CS-19BF	0.9	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	16.8	
~~ 19BR	4.0	3.0	4.3	4.0	15,3	2.2	2.2	2.3	2.1	8.8	0.0	0.0	0.0	0.0	0.0	
T AL FAB	74.9	78.1	81.4	75.2	309.6	71.1	74.9							0.0	0.0	•
			2			HREE-Y		76.4 'LAN	76.3	298.7	75.9	77.6	78.7	79.8	311.9	

Fab 25 WAFER OUT DEMANDS (K, 8")

PRODUCT LINE	<u>1001</u>	2O01	<u>3001</u>	<u>4001</u>	<b>2001</b>	1002	<b>2002</b>	3002	4002	2002	1003	2003	2002	4000	
CMD/TMD TOTAL	59.9	55.5	58.4	57.8	231.6	57.1	54.3	53.8	48.5	213.7			3003	4003	<u>2003</u>
CS-44E72 (5LM)	5.3	0.0	0.0	0.0	5.3	0.0	0.0	0.0	0.0	0.0	26.8	23.1	27.1	30.9	107.9
CS-50/H6 (6LM)	54.6	55.5	58.4	57.8	226.3	57.1	51.9	41.8	28.5	0.0 179.3	0.0	0.0	0.0	0.0	0.0
HiP7L-bulk (7LM)	0.0	0.0	0.0	0.0	0.0	0.0	2.4	12.0	20.0	34.4	2.6	0.0	0.0	0.0	2.6
EPD TOTAL	1.8	2.9	3.7	3.9	12.3	3.9	4.4	4.7			24.2	23.1	27.1	30.9	105.3
CS-34 (3LM)	1.5	1.6	2.1	2.0	7.2	1.5	1.6	1.6	4.5 1.5	17.5	3.9	3,8	3.8	3.6	15.1
CS-44E72 (5LM)	0.1	0.7	0.6	0.6	2.0	0.5	0.5	0.5	0.4	6.2 1.9	1.1	1.2	1.2	1.1	4.6
CS-50/H6 (6LM)	0.2	0.6	1.0	1.3	3.1	1.9	2.3	2.6	2.6	9.4	0.3 2.5	0.3 2.3	0.3 2.3	0.3	1.2
Lattice TOTAL	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0			2.2	9.3
EE7 (3LM)	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	<b>0.0</b> 0.0	<b>0.0</b> 0.0	0.0	0.0
TOTAL FAB	61.8	58.4	62.1	61.7	244.0	61.0	58.7	58.5	53.0	231.2	30.7	26.9	30.9	0.0 34.5	0.0 123.0

12/04/00

### THREE-YEAR PLAN Fab 30 WAFER OUT DEMANDS (K, 8")

PR CT LINE	1001	<u>2001</u>	<u>3001</u>	4001	<u> 2001</u>	1002	2 <u>002</u>	<u>3002</u>	4002	2002	1003	2003	3003	4003	2003
CMD/TMD TOTAL	26.0	32.6	41.2	47.6	147.4	46.0	52.8	54.7							2003
HiP68 (9LM)	0.0							34.7	58.9	212.5	62.9	63.9	65.0	69.0	260.8
	0.0	0.0	0.0	0.0	0.0	3.4	6.0	2,3	0.0	11.8	0.0	0.0	0.0	0.0	0.0
HiP6L (6LM)	26.0	32.6	41.2	47.6	147.4	40.9	37.3	22.5	6.7	107.4	0.0	0.0			
HiP7L-bulk (7LM)	0.0	0.0	0.0	0.0	0.0	1.7	0.6					U.U	0.0	0.0	0.0
,					<i>0.0</i>	1./	9.6	19.5	28.9	<i>59.7</i>	29.0	25.7	11.9	0.0	66.6
HiP7L-SOI (9LM)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.4	23.3	33.7	34.0	38.1	53.1	69.0	194.2
TOTAL FAB	26.0	32.6	41.2	47.6	147.4	46.0	52.8	54.7	58.9	212.5	62.9	63.9	65.0	69.0	260 8

# THREE-YEAR PLAN FASL 1 SORT OUT DEMANDS (K, 8") AMD ONLY

PRODUCT LINE	1001	<u>2001</u>	<u>3001</u>	4001	<u> 2001</u>	1002	2Q02	3002	4002	2002	1003	2003	3003	4003	2002
NVD TOTAL	450	440								-	1000	2000	5005	7003	<u> 2003</u>
	45.0	44.9	47.3	48.6	185.8	51.0	48.9	50.9	52.1	202.9	45.7	46.0	49.2	49.4	190.3
CS-39S	45.0	44.9	47.3	48.6	185.8	51.0	48.9	50.9	52.1	202.9					
CS-99DB	^ ^		, ,					50.5	J2. I	202.9	45.7	43.5	43.5	40.3	173.0
Co-99DD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	5.7	9.1	17.3
TOTAL FAB	45.0	44.9	47.3	48.6	185.8	51.0	48.9	50.9	52.1	202.9	45.7	46.0	49.7	40 4	100 2

# THREE-YEAR PLAN FASL 2 SORT OUT DEMANDS (K, 8") AMD ONLY

								-							
PRODUCT LINE	<u>1001</u>	<u>2001</u>	<u>3001</u>	<u>4001</u>	<u> 2001</u>	1002	<u>2002</u>	3 <u>002</u>	4002	2002	1003	2003	3Q03	4003	<u>2003</u>
NVD TOTAL	45.5	58.9	71.9	79.6	255.9	85.5	91.2	60.7	46.2	283.6	49.7	47.7	46.0	45.0	
CS-109DBH	0.0	0.0		0.0						203.0	47.7	41.7	46.2	45.8	189.4
			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	11.9	17.5	21.4	53.0
CS-49N/NS	11.7	14.9	16.7	20.3	63.6	23.3	22.9	5.9	6.0	58.1	6.8	6.5			
CS-49NSD	0.0	0.0	2.8	4 5		4.0					0.8	0.5	0.0	0.0	<i>13.3</i>
Y 1	0.0	0.0	2.0	4.5	<b>7.3</b>	4.9	6.9	0.6	0.6	13.0	0.0	0.0	0.0	0.0	0.0
)9S/HS	33.8	43.8	42.3	44.6	164.5	44.8	27.2	25.5	18.3	115.8	14.0				
CS-99DB	0.0	0.0	^ ^							113.0	14.0	3.8	0.0	0.0	<i>17.8</i>
	0.0	0.0	0.0	0.0	0.0	0.0	32.9	27.3	19.9	80.1	25.3	25.5	28.7	24.4	103.9
CS-99SB	0.0	0.2	10.1	10.2	20.5	12.5	1.3	1.4					20.7	27.7	103.9
		٠.ــ		10.2	20.3	14.5	1.3	1.4	1.4	16.6	1.4	0.0	0.0	0.0	1.4
TOTAL FAB	45.5	58.9	71.9	79.6	255.9	85.5	91.2	60.7	46.2	283.6	49.7	47.7	46.2	45.8	180 1

## THREE-YEAR PLAN FASL 3 SORT OUT DEMANDS (K, 8") AMD ONLY

						A.P.IAN	D OUT								
PRODUCT LINE	<u>1001</u>	2 <u>Q01</u>	<u>3001</u>	<u>4001</u>	<u> 2001</u>	1002	2002	3O02	4002	2002	1003	2003	3003	4003	2003
NVD TOTAL	0.0	0.0	0.0	10.8	10.8	10.8	22.7	55.1	95.3						2003
CS-109DBH		• •				10.0	AL AL O	33.1	75.5	183.9	93.8	104.1	100.8	114.1	412.8
C3-109DBH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.1	13.1	7.1	14.5	11.0	100	40.4
CS-59N	0.0	0.0	0.0	0.0							7.1	14.5	11.2	15.8	48.6
	0.0	0.0	0.0	0.0	0.0	0.0	9.1	28.9	50.6	88.6	54.7	68.3	69.7	83.4	276.1
CS-59S	0.0	0.0	0.0	10.8	10.8	10.8	13.6	26.2	31.6	02.2	22.0				2/G.I
				20.0	2000	10.0	13.0	20.2	31.0	82.2	32.0	21.3	19.9	14.9	<i>88.1</i>
TOTAL FAB	0.0	0.0	0.0	10.8	10.8	10.8	22.7	55.1	95.3	183.9	93.8	104.1	100.8	114.1	412 8

# THREE-YEAR PLAN FASL 4 SORT OUT DEMANDS (K, 8") AMD ONLY

PRODUCT LINE	<u>1001</u>	<u>2001</u>	<u>3001</u>	<u>4001</u>	<u> 2001</u>	<u>1002</u>	2O02	3O02	4002	2002	1003	2003	3003	4003	2003	
NVD TOTAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	4.2	7.9	20.2	30.8	41.6		
CS-109DBH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	4.2	7.9		30.8	41.6	100.5 100.5	
TOTAL FAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	42						
				***	0.0	0.0	0.0	U.U	4.4	4.2	7.9	20.2	30.8	41.6	100.5	

### THREE-YEAR PLAN Fab 25 WAFER OUT COMMITS (K, 8")

1															
PROLUCT LINE	1001	<u>2001</u>	3Q01	4001	<u> 2001</u>	1002	2 <b>Q</b> 02	3Q02	4002	2002	1003	2003	3003	4003	<u>2003</u>
CMD/TMD TOTAL	59.9	55.5	58.4	57.8	231.6	57.1	54.3	53.8	48.5	213.7	26.8	23.1			h
CS-44E72 (5LM)	5.3	0.0	0.0	0.0	5.3	0.0	0.0	0.0	0.0	0.0			27.1	30.9	107.9
CS-50/H6 (6LM)	54.6	55.5	58.4	57.8	226.3	57.1	51.9	41.8	28.5	179.3	0.0	0.0	0.0	0.0	0.0
HiP7L-bulk (7LM)	0.0	0.0	0.0	0.0	0.0	0.0	2.4	12.0	20.0		2.6	0.0	0.0	0.0	2.6
EPD TOTAL	1.8	2.0							20.0	34.4	24.2	23.1	27.1	30.9	105.3
		2.9	3.7	3.9	12,3	3.9	4.4	4.7	4.5	17.5	3.9	3.8	3.8	3.6	15.1
CS-34 (3LM)	1.5	1.6	2.1	2.0	7.2	1.5	1.6	1.6	1.5	6.2	1.1	1.2	1.2	1.1	4.6
CS-44E72 (5LM)	0.1	0.7	0.6	0.6	2.0	0.5	0.5	0.5	0.4	1.9	0.3	0.3	0.3	0.3	
CS-50/H6 (6LM)	0.2	0.6	1.0	1.3	3.1	1.9	2.3	2.6	2.6	9.4	2.5	2.3	2.3	2.2	1.2
Lattice TOTAL	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0							9.3
EE7 (3LM)	0.1	0.0	0.0	0.0	0.1				0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0,0	0.0	0.0	0.0	0.0
TOTAL FAB	61.8	58.4	62.1	61.7	244.0	61.0	58.7	58.5	53.0	231,2	30,7	26.9	30.9	34.5	123.0

### THREE-YEAR PLAN Fab 25 WAFER OUT COMMITS (K, 8")

TECHNOLOGY	1001	<u>2001</u>	<u>3001</u>	<u>4001</u>	<u> 2001</u>	1002	2002	3002	4002	2002	1003	2003	3003	4003	2002
CS-34 (3LM)	1.5	1.6	2.1	2.0	7.2	1.5	1.6		1.5		*****	-	-	4003	<u> 2003</u>
CS-44E72 (5LM)	5.4	0.7	0.6						1.5	6.2	1,1	1.2	1.2	1.1	4.6
				0.6	7.3	0.5	0.5	0.5	0.4	1,9	0.3	0.3	0.3	0.3	1.2
CS-50/H6 (6LM)	54.8	56.1	59.4	59.1	229.4	59.0	54.2	44.4	31.1	188.7	5.1	2.3	2.3	2.2	
EE7 (3LM)	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0							11.9
HiP7L-bulk (7LM)	0.0								0.0	0.0	0.0	0.0	0.0	0.0	0.0
IIII /L-Ouik (/LIVI)	0.0	0.0	0.0	0.0	0.0	0.0	2.4	12.0	20.0	34.4	24.2	23.1	27.1	30.9	105.3
TOTAL FAB	61.8	58.4	62.1	61.7	244.0	61.0	58.7	58.5	<b>53</b> 0	227.0		12.			103.3
				V	277.0	01.0	20.7	36.3	53.0	231.2	30.7	26.9	30.9	34.5	123.0

### THREE-YEAR PLAN FAB 25 WAFER OUT CAPACITY (K, 8")

CS-34 (3LM)	1 <b>Q01</b> 2.5	2Q01 2.5	3Q01 2.5	4Q01 2.5	2001 10.0	1Q02 2.5	2Q02 2.5	3Q02 2.5	4Q02 2.5	2002 10.0	1Q03 1.5	2Q03	3Q03	4Q03	2003 6.0
CS-44E72(5LM)	1.0	1.0	1.0	1.0	4.0	1.0	1.0	1.0	1.0	4.0	1.0	1.0	1.0	1.0	4.0
CS-50/H6 (6LM)	59.0	59.0	59.0	59.0	236.0	59.0	54.4	44.4	36.6	194.4	30.9	30.9	27.1	24.0	112.9
EE7 (3LM)	0.5	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HiP7L-bulk (7LM)	0.0	0.0	0.0	0.0	0.0	0.0	2.0	12.0	20.0	34.0	27.0	27.0	30.0	35.0	119.0
TOTAL	63.0	62.5	62.5	62.5	250.5	62.5	59.9	59.9	60.1	242.4	60.4	60.4	59.6	61.5	241.9
Work Weeks	13.0	13.0	13.0	13.0	52.0	13.0	13.0	13.0	13.0	52.0	13.0	13.0	13.0	13.0	52.0

### THREE-YEAR PLAN Fab 30 WAFER OUT COMMITS (K, 8")

CT LINE  CMD/TMD TOTAL  HiP68 (9LM)  HiP6L (6LM)  HiP7L-bulk (7LM)  HiP7L-SOI (9LM)	1001 26.0 0.0 26.0 0.0 0.0	2001 32.6 0.0 32.6 0.0 0.0	3001 38.4 0.0 38.4 0.0 0.0	4001 36.8 0.0 36.8 0.0 0.0	2001 133.8 0.0 133.8 0.0 0.0	1002 46.0 3.4 40.9 1.7 0.0	2002 52.8 6.0 37.3 9.6 0.0	3002 54.7 2.3 22.5 19.5 10.4	<b>4002 58.9</b> 0.0 6.7 28.9 23.3	2002 212.5 11.8 107.4 59.7 33.7	1003 62.9 0.0 0.0 29.0 34.0	2003 63.9 0.0 0.0 25.7 38.1	3003 65.0 0.0 0.0 11.9 53.1	4003 64.9 0.0 0.0 0.0	2003 256.7 0.0 0.0 66.6
TOTAL FAB	26.0	32.6	38.4	36.8	133.8	46.0	52.8	54.7	58.9	212.5		58.1 <b>63.9</b>	55.1 <b>65.0</b>	64.9 <b>64.9</b>	190.1 256.7

### THREE-YEAR PLAN Fab 30 WAFER OUT COMMITS (K, 8")

TECHNOLOGY	1001	2O01	3001	4001	2001	1002	2002	3002	4002	2002	1003	2002	2000	4000	442
HiP68 (9LM)	0.0	0.0	0.0	0.0	0.0	3.4						<u>2Q03</u>	<u>3Q03</u>	<u>4003</u>	<u> 2003</u>
HiP6L (6LM)	26.0	32.6					6.0	2.3	0.0	11.8	0.0	0.0	0.0	0.0	0.0
			38.4	36.8	133.8	40.9	37.3	22.5	6.7	107.4	0.0	0.0	0.0	0.0	0.0
HiP7L-bulk (7LM)	0.0	0.0	0.0	0.0	0.0	1.7	9.6	19.5	28.9	59.7	29.0	25.7	11.9		777
HiP7L-SOI (9LM)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.4						0.0	66.6
				0,0	0.0	0.0	0.0	10.4	23.3	<i>33.7</i>	34.0	38.1	53.1	64.9	190.1
TOTAL FAB	26.0	32.6	38.4	36.8	133.8	46.0	52.8	54.7	58.9	212.5	62.9	63.9	65.0	64.9	256.7

### THREE-YEAR PLAN FAB 30 WAFER OUT CAPACITY (K, 8")

HIP68 (9LM)	1 <b>Q01</b> 0.0	2 <b>Q01</b> 0.0	3 <b>Q01</b> 0.0	4 <b>Q01</b> 0.0	2001 0.0	1Q02 3.4	2Q02 6,0	3Q02 2.3	4Q02 0.0	2002 11.8	1 <b>Q03</b> 0.0	2Q03 0.0	3Q03 0.0	4Q03	2003 0.0
HIP6L (6LM)	26.0	32.6	38.4	36.8	133.8	40.9	37.3	22.5	6.7	107.4	0.0	0.0	0.0	0.0	0.0
7L - bulk	0.0	0.0	0.0	0.0	0.0	1.7	9.6	19.5	28.9	59.7	29.0	25.7	11.9	0.0	66.6
niP7L - SOI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.4	23.3	33.7	34.0	38.1	53.1	64.9	190.1
TOTAL	26.0	32.6	38.4	36.8	133.8	46.0	52.8	54.7	58.9	212.5	62.9	63.9	65.0	64.9	256.7
Work Weeks	13.0	13.0	13.0	13.0	52.0	13.0	13.0	13.0	13.0	52.0	13.0	13.0	13.0	13.0	52.0

# THREE-YEAR PLAN WAFER FABRICATION GROUP COMMITS VS. CAPACITIES (K, 8") BY FAB

		1 <u>Q02</u>			2O02			3O02			4002			2002	
	<u>COM</u>	<u>CAP</u>	DEL	COM	CAP	DEL	COM	CAP	DEL	COM	CAP	DEL	COM	CAP	DEL
0.13u Fdry #1 - (BULK)	6.0	6.0	0.0	3.8	3.8	0.0	5.9	5.9	0.0	1.1	1.1	0.0	16.9	16.9	0.0
EPSON	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FAB 14/15	39.9	46.2	6.3	42.1	46.2	4.2	42.9	46.2	3.3	42.9	46.2	3.4	167.8	184.9	
Fab 25	61.0	62.5	1.5	58.7	59.9	1.2	58.5	59.9	1.4	53.0	60.1	7.1	231.2	242.4	17.1
Fab 30	46.0	46.0	0.0	52.8	52.8	0.0	54.7	54.7	0.0	58.9	58.9	0.0	212.5	212.5	11.2
Fab8A	1.2	2.0	0.8	1.2	2.0	0.8	1.2	2.0	0.8	1.2	2.0	0.8	4.8	8.0	0.0
Fab8B	8.4	19.1	10.7	7.7	19.1	11.4	9.1	19.1	10.0	13.0	19.1	6.1	38.2		3.2
FASL - GMD	27.0	27.0	0.0	25.8	25.8	0.0	27.8	27.8	0.0	36.0	36.0	0.0	116.6	76.4	38.2
FASL - IWATE	15.1	15.1	0.0	14.5	14.5	0.0	13.4	13.4	0.0	14.0	14.0	0.0		116.6	0.0
FASL 1	48.0	48.0	0.0	45.6	45.6	0.0	45.6	45.6	0.0	45.6	45.6		57.0	57.0	0.0
FASL 2	35.7	35.7	0.0	36.9	36.9	0.0	37.7	37.7	0.0	40.4	40.4	0.0	184.8	184.8	0.0
FASL 3	0.0	0.0	0.0	12.9	12.9	0.0	26.3	26.3	0.0	36.2	36.2	0.0	150.6	150.6	0.0
FASL 4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.0	75.4	75.4	0.0
SONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.5	0.5	0.0
TSMC	0.1	0.2	0.1	0.1	0.2	0.1	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
				0	٠	0.1	0.1	0.4	V. 1	0.1	0,2	0.1	0.5	0.8	0.3
TOTAL FAB	288.4	307.8	19.3	302.2	319.8	17.6	323.3	338.9	15.6	342.9	360.3	17.4	1256.8	1326.8	70.0

# THREE-YEAR PLAN WAFER FABRICATION GROUP COMMITS VS. CAPACITIES (K, 8") BY FAB

		<u>1003</u>			2O03			3Q03			4003			2003	
	<u>COM</u>	CAP	<u>DEL</u>	<u>COM</u>	CAP	<u>DEL</u>	COM	CAP	DEL	COM	CAP	DEL	COM	CAP	DEL
0.13u Fdry #1 - (BULK)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EPSON	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FAY 5	42.6	46.2	3.6	43.6	46.2	2.6	44.2	46.2	2.0	44.8	46.2	1.4	175.2	184.9	9.7
Fab.	30.7	60.4	29.7	26.9	60.4	33.5	30.9	59.6	28.7	34.5	61.5	27.0	123.0	241.9	118.9
Fab 30	62.9	62.9	0.0	63.9	63.9	0.0	65.0	65.0	0.0	64.9	64.9	0.0	256.7	256.7	0.0
Fab8A	1.1	2.0	0.9	1.1	2.0	0.9	1.0	2.0	1.0	1.0	2.0	1.0	4.2	8.0	3.8
Fab8B	19.5	19.1	-0.4	25.9	19.1	-6.8	31.8	19.1	-12.7	41.4	19.1	-22.3	118.5	76.4	-42.1
FASL - GMD	38.5	38.5	0.0	41.2	41.2	0.0	44.1	44.1	0.0	46.7	46.7	0.0	170.5	170.5	0.0
FASL - IWATE	17.1	17.1	0.0	17.9	17.9	0.0	18.9	18.9	0.0	18.9	18.9	0.0	72.6	72.6	0.0
FASL 1	39.0	39.0	0.0	41.2	41.2	0.0	44.8	44.8	0.0	44.9	44.9	0.0	169.8	169.8	0.0
FASL 2	43.0	43.0	0.0	42.3	42.3	0.0	42.1	42.1	0.0	41.6	41.6	0.0	168.9	168.9	
FASL 3	46.2	46.2	0.0	48.5	48.5	0.0	51.9	51.9	0.0	52.3	52.3	0.0	198.8	198.8	0.0
FASL 4	5.5	5.5	0.0	16.0	16.0	0.0	28.0	28.0	0.0	37.8	37.8	0.0	87.3	87.3	
SONY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TSMC	0.1	0.2	0.1	0.1	0.2	0.1	0.1	0.2	0.1	0.1	0.0	0.1	0.4		0.0
							***	٠	7.1	V.1	0.2	0.1	0.4	0.8	0.4
TOTAL FAB	346.1	380.0	34.0	368.4	398.8	30.4	402.6	421.7	19.1	428.8	436.0	7.2	1545.8	1636.5	90.7

# THREE-YEAR PLAN WAFER FABRICATION GROUP COMMITS (K, 8") BY FAB

FAB/FOUNDRY	1001	<b>2001</b>	3001	4001	2001	1002	2002	3002	4002	2002	1003	2002	2000	4000	
0.13u Fdry #1 - (BULK)	0.0	0.0	0.0	0.0	0.0	6.0	3.8	5.9	1.1			<u>2003</u>	3003	4003	<u>2003</u>
EPSON	0.1	0.1	0.1	0.1	0.5	0.0	0.0	0.0	0.0	16.9	0.0	0.0	0.0	0.0	0.0
FAB 14/15	41.6	41.8	43.1	42.3	168.7	39.9	42.1	42.9		0.0	0.0	0.0	0.0	0.0	0.0
Fab 25	61.8	58.4	62.1	61.7	244.0	61.0	58.7	58.5	42.9 53.0	167.8	42.6	43.6	44.2	44.8	175.2
Fab 30	26.0	32.6	38.4	36.8	133.8	46.0	52.8	54.7	58.9	231.2	30.7	26.9	30.9	34.5	123.0
Fab8A	0.9	1.3	1.4	1.4	5.0	1.2	1.2	1.2		212.5	62.9	63.9	65.0	64.9	256.7
Fab8B	9.7	11.9	10.7	7.7	40.0	8.4	7.7	9.1	1.2	4.8	1.1	1,1	1.0	1.0	4.2
FASL - GMD	8.7	10.7	14.3	24.2	57.9	27.0	25.8	27.8	13.0	38.2	19.5	25.9	31.8	41.4	118.5
FASL - IWATE	17.0	16.3	16.6	17.6	67.5	15.1	14.5		36.0	116.6	38.5	41.2	44.1	46.7	170.5
FASL 1	45.0	44.7	47.3	48.0	185.0	48.0	45.6	13.4 45.6	14.0	57.0	17.1	17.9	18.9	18.9	72.6
FASL 2	27.9	31.1	33.6	35.6	128.1	35.7	36.9		45.6	184.8	39.0	41.2	44.8	44.9	169.8
FASL 3	0.0	0.0	0.0	0.5	0.5	0.0	12.9	37.7	40.4	150.6	43.0	42.3	42.1	41.6	168.9
FASL 4	0.0	0.0	0.0	0.0	0.0	0.0		26.3	36.2	75.4	46.2	48.5	51.9	52.3	198.8
SONY	0.6	0.4	0.2	0.0	1.3	0.0	0.0 0.0	0.0	0.5	0.5	5.5	16.0	28.0	37.8	87.3
TSMC	0.0	0.1	0.1	0.1	0.3	0.0	-,-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL FAB	239.2	249.5	267.8	276.1	1032.	288.4	0.1	0.1	0.1	0.5	0.1	0.1	0.1	0.1	0.4
			~v/.0	4/0.1	1034.	400.4	302.2	323.3	342.9	1256.	346.1	368.4	402.6	428.8	1545.8

# THREE-YEAR PLAN WAFER FABRICATION GROUP COMMITS (K, 8") BY GEOMETRY

(_/							DI G	EUNIE.	IKI						
MICRON SIZE	1001	2001	3Q01	<u>4001</u>	2001	1002	<u>2002</u>	3 <u>002</u>	4002	2002	1003	<u>2003</u>	3O03	4 <b>Q</b> 03	2003
>0.25u TOTAL	0.0	0.1	0.1	0.1	0.3	0.1	0.1	0.1	0.1	0.5	0.1	0.1	0.1	0.1	
0.35u 2P3M	0.0	0.1	0.1	0.1	0.3	0.1	0.1	0.1	0.1	0.5	0.1	0.1	0.1	0.1	0.4
>0.5u TOTAL	42.5	5 42.7	43.8	43.0	171.9	40.4	42.5	43.4	43.3	169.5	43.1	44.0	44.6	45.2	
0.32u 1P3M	0.2	2 0.3	0.4	0.5	1.4	0.4	0.4	0.4	0.4		0.4	0.4	0.4	0.4	1.7
CS-19A/AR	0.3		0.5	0.4	1.6	0.4	0.0	0.0	0.0	0.4	0.5	0.5	0.4	0.4	1.8
CS-19B	0.9		1.0	1.2	4.0	1.2	1.7	1.7	1.7	6.2	2.3	2.3	2.4	2.4	9.4
CS-19BF	0.5		0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CS-19BR	2.3		2.4	2.3	8.6	1.2	1.2	1.3	1.2	4.9	0.0	0.0	0.0	0.0	0.0
C\$-21	3.1		2.4	1.7	10.1	1.6	1.5	1.5	1.5	6.0	1.4	1.4	1.4	1.4	5.8
CS-21S	9.1		9.1	8.4	36.2	6.8	6.7	6.3	6.1	25.8	5.3	5.4	5.0	4.9	20.6
CS-21ST	1.2		1,1	1.0	4.6	1.2	1.0	1.0	1.0	4.2	1.0	1.0	1.0	1.0	4.0
CS-22 CS-23	0.2	27.7	0.3	0.2	1.0	0.1	0.1	0.1	0.0	0.4	0,0	0.0	0.0	0.0	0.0
CS-23 EE4	9.4	20.00	9.4	8.6	37.1	9,9	9,1	8.9	8.7	36.6	8.6	8.6	8.5	8.2	33.9
EE5	0.9		0.6	0.6	2.9	0.4	0.4	0.4	0,4	1.7	0.4	0.4	0.4	0.4	1.7
EE65	3.7		3.4	3.1	13.5	2.1	2.1	2.1	2.1	8.4	2.1	2.1	2.1	2.1	8.4
HV4	2.2 7.2	2.5 6.7	2.8	3.1	10.6	4.2	4.2	4.2	4.2	16.9	4.2	4.2	4.2	4.2	16.9
HV4+	0.7	0.7	6.9 0.6	8.2	28.9	5.9	6.0	5.6	5.5	23.0	5.5	5.6	5.7	5.7	22.5
HV7	0.7	1.3	2.5	0.7 2.8	2.6	2.2	5.0	6.6	7.1	21.0	7.6	8.2	8.8	9.5	34.1
IMOX2	0.2	0.2	0.0	0.0	6.7 0.5	2.8 0.0	3.0	3.2	3.4	12.4	3.6	3.9	4.2	4.5	16.2
IMOX2S	0.2	0.1	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LS	0.0	0.1	0.0	0.0	0.5	0.0	0,0 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SMS12-6"	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SMSDL-5"	0.1	0.1	0.1	0.1	0.3	0.0	0.0	0.0	0.0 0.0	0.0 0.0	0.0	0.0	0.0	0.0	0.0
0.13 TOTAL	0.0	0.0	0.0	0.0	0.0	6.0					0.0	0.0	0.0	0.0	0.0
0.13u Technology	0.0	0.0	0.0	0.0	0.0	6.0	3.8 3.8	<b>5.9</b> 5.9	1.1 1.1	16.9 16.9	<b>0.0</b> 0.0	0.0	0.0	0.0	0.0
0.13u TOTAL	0.0	0.0	0.0	0.0	0.0	1.7	12.0					0.0	0.0	0.0	0.0
HiP7L-bulk (7LM)	0.0	0.0	0.0	0.0	0.0	1.7	12.0	<b>41.9</b> 31.5	72.2 48.9	127.8	87.1	87.0	92.1	95.8	362.0
TT:P7L-SOI (9LM)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.4	23.3	94.1 33.7	53.2	48.8	39.0	30.9	171.9
COTAL	80.8	88.7	97.8	96.6							34.0	38.1	53.1	64.9	190.1
0.18u 1P5M	0.0	0.0	0.0	0.2	363.9 0.2	104.2 0.8	112.0 1.5	99.0 2.0	81.0	396.2	70.5	94.3	120.4	141.4	426.6
0.18u 1P6M	0.0	0.0	0.0	0.0	0.2	0.0	0.0	1.2	2.2 3.9	6.4	1.8	1.3	0.8	0.9	4.8
0.18u 5LM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	5.2 0.4	9.3	15.1	20.1	27.4	71.8
0.18u 6LM	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2	0.1	0.4	0.2 0.7	0.2 0.7	0.2	0.2	0.9
CS-109DBH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	2.3	13.3	42.5	1.2 59.5	1.2 78.8	3.8
CS-50/H6 (6LM)	54.8	56.1	59.4	59.1	229.4	59.0	54.2	44.4	31.1	188.7	5.1	2.3	2.3	2.2	194.1
CS-59N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	3.3	4.7	8.1	10.9	16.4	15.8	11.9 51.2
CS-59S	0.0	0.0	0.0	0.5	0.5	0.0	12.9	24.9	31.2	69.0	32.0	21.3	19.9	14.9	88.1
HiP68 (9LM)	0.0	0.0	0.0	0.0	0.0	3.4	6.0	2.3	0.0	11.8	0.0	0.0	0.0	0.0	0.0
HiP6L (6LM)	26.0	32.6	38.4	36.8	133.8	40.9	37.3	22.5	6.7	107.4	0.0	0.0	0.0	0.0	0.0
0.22u TOTAL	52.8	57.3	63.1	75.1	248.3	72.7	68.0	63.5	58.3	262.5	42.8	23.9	8.5	0.0	75.2
CS-49S/HS	52.8	57.3	63.1	75.1	248.3	72,7	68.0	63.5	58.3	262.5	42.8	23.9	8.5	0.0	75.2 75.2
0.23u TOTAL	0.0	0.2	0.8	1.9	2.8	3.5	7.7	13.9	30.6	55.7	51.0	66.3	85.7	+147	
CS-99DB	0.0	0.0	0.0	0.0	0.0	0.0	6.4	12.6	29.2	48.1	49.6	66.3	85.7	<b>96.0</b> 96.0	299.0
CS-99SB	0.0	0.2	0.8	1.9	2.8	3.5	1.3	1.4	1.4	7.5	1.3	0.0	0.0	0.0	297.6 1.3
0.25u TOTAL	15.7	12.7	11.5	8.3	48.2	9.3	7.9	7.3	8.2	32.8					
0.25u 1P4M	9.6	10.1	8.7	5.9	34.3	7.1	5.9	5.4	6.3	24.7	10.7 7.3	11.7	9,6	11.8	43.8
0.25u 1P5M	0.0	1.2	1.6	1.4	4.2	0.4	0.1	0.1	0.1	0.7	0.1	8.3 0.1	9.2	11.3	36.1
CS-44E72 (5LM)	5.4	0.7	0.6	0.6	7.3	0.5	0.5	0.5	0.4	1.9	0.3	0.1	0.1 0.3	0.2	0.5
CS-49N/NS	0.7	0.7	0.6	0.4	2.3	1.3	1.4	1.4	1.4	5.4	3.0	3.0	0.0	0.3	1.2
0.35u TOTAL	47.4	47.8	50.8	51,1	197.1	50.5	48.2	48.2	48.1					0.0	6.0
0.35u 1P3M	0.8	1.5	1.4	1.1	4.8	0.8	0.8	0.8	<b>48.1</b> 0.9	195.0 3.4	40.9	41.0	41.6	38.5	162.0
CS-34 (3LM)	1.5	1.6	2.1	2.0	7.2	1.5	1.6	1.6	1.5	6.2	0.8	0.8	0.8	0.8	3.2
CS-39S	45.0	44.7	47.3	48.0	185.0	48.0	45.6	45.6	45.6	0.2 184.8	1.1 39.0	1.2 39.0	1.2	1.1	4.6
CS-49NSD	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.1	0.1	0.6	0.0		39.6	36.6	154.2
EE7 (3LM)	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0
TOTAL FAB	239.2	249.5			1032.6	288.4	302.2	323.3	342.9				0.0	0.0	0.0
· · · · · · · · · · · · · · · · · · ·			-0.10		I VJM.U	400.4	304,2	343.3	344.9	1256.8	346.1	368.4	402.6	428.8	1545.8

# THREE-YEAR PLAN WAFER FABRICATION GROUP COMMITS (K, 8") BY GROUP BY FAB

	1001	2001	3O01	4001	2001	1002	2002	3002	4002	2002	1002	2002	200	1000	
CPG	110.5	117.3	124.9	119.1	471.8	132.1	133.4	137.9	135.2	538.7	1003	2 <u>003</u>	3003	4003	<u>2003</u>
TSMC	0.0	0.1	0.1	0.1	0.3	0.1	0.1	0.1	0.1	0.5	121.4	125.0	135.5	148.5	530.3
EPSON	0.1	0.1	0.1	0.1	0.5	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.4
FAB 14/15	11.6	12.4	11.9	11.1	47.0	9.3	9.0	8.3	7.9	34.5	0.0	0.0	0.0	0.0	0.0
Fab 25	61.7	58.4	62.1	61.7	243.9	61.0	58.7	58.5	53.0	231.2	7.1	7.2	6.7	6.5	27.6
Fab 30	26.0	32.6	38.4	36.8	133.8	46.0	52.8	54.7	58.9	212.5	30.7	26.9	30.9	34.5	123.0
Fab8A	0.9	1.3	1.4	1.4	5.0	1.2	1.2	1.2	1.2		62.9	63.9	65.0	64.9	256.7
Fab8B	9.7	11.9	10.7	7.7	40.0	8.4	7.7	9.1	13.0	4.8	1.1	1.1	1.0	1.0	4.2
SONY	0.6	0.4	0.2	0.1	1.3	0.0	0.0	9.1		38.2	19.5	25.9	31.8	41.4	118.5
0.13u Fdry #1 -	0.0	0.0	0.0	0.0	0.0	6.0	3.8	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LATTICE	6.8	6.7	6.7	6.7	27.1	6.7	5.6 <b>6.7</b>		1.1	16.9	0.0	0.0	0.0	0.0	0.0
Fab 25	0.1	0.0	0.0	0.0	0.1	0.0	0.0	6.7	6.7	27.0	6.7	6.7	6.7	6.7	27.0
FAB 14/15	6.7	6.7	6.7	6.7	27.0	6.7	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEGERITY	19.4	19.7	20.5	20.6	80.1	21.1		6.7	6.7	27.0	6.7	6,7	6.7	6.7	27.0
FAB 14/15	19.4	19.7	20.5	20.6	80.1	21.1	23.4	24.9	25.4	94.8	25.9	26.9	27.9	28,7	109.5
MEMORY	102.4	105.8	115.7	129.7	453.6		23.4	24.9	25.4	94.8	25.9	26.9	27.9	28.7	109.5
FASL 4	0.0	0.0	0.0	0.0	0.0	128.5	138.6	153.8	175.5	596.3	192.0	209.8	232.4	244.9	879.0
FAB 14/15	3.9	3.0	3.9	3.8	14.6	0.0 2.8	0.0	0.0	0.5	0.5	5.5	16,0	28.0	37.8	87.3
FASL - GMD	8.7	10.7	14.3	24.2	57.9		2.9	3.0	2.9	11.5	2.8	2.8	2,8	2.8	11.2
FASL - IWATE	17.0	16.3	16.6	17.6	67.5	27.0	25.8	27.8	36.0	116.6	38.5	41.2	44.1	46.7	170.5
FASL 1	45.0	44.7	47.3	48.0	185.0	15.1	14.5	13.4	14.0	57.0	17.1	17.9	18.9	18.9	72.6
FASL 2	27.9	31.1	33.6	35.6		48.0	45.6	45.6	45.6	184.8	39.0	41.2	44.8	44.9	169.8
FASL 3	0.0	0.0	0.0	33.0 0.5	128.1	35.7	36.9	37.7	40.4	150.6	43.0	42.3	42,1	41.6	168.9
TOTAL FAB	239.2	249.5	267.8		0.5	0.0	12.9	26.3	36.2	75.4	46.2	48.5	51.9	52.3	198.8
	237.2	4772	40/.0	276.1	1032.6	288,4	302.2	323.3	342.9	1256.8	346.1	368.4	402.6	428.8	1545.8

# THREE-YEAR PLAN WAFER FABRICATION GROUP COMMITS (K, 8") BY DIVISION BY FAB

PRODUCT LINE	1001	2O01	3O01	4001	2001	1002	2002	3002	4002	2002	1002	2002	2000	40.00	
C MD	85.9	88.1	96.8	94.6	365.3	109.1	111.0	114.5	108.6		1003	<u>2003</u>	<u>3003</u>	<u>4003</u>	2003
o Fdry #1 - (BULK)	0.0	0.0	0.0	0.0	0.0	6.0	3.8	5.9	1.1	443.1	89.7	87.0	92.1	95.8	364.6
Fab 25	59.9	55.5	58.4	57.8	231.6	57.1	54.3	53.8	48.5	16.9 213.7		0.0	0.0	0.0	0.0
Fab 30	26.0	32.6	38.4	36.8	133.8	46.0	52.8	54.7	58.9	213.7	26.8	23.1	27.1	30.9	107.9
EPD	7.2	9.6	10.1	9.8	36.7						62.9	63.9	65.0	64.9	256.7
EPSON	0.1	0.1	0.1	0.1	0.5	9.4 0.0	9.8	9.9	9.4	38.6	8,8	8.9	8.7	8.5	35.0
FAB 14/15	4.2	5.2	4.9	4.3	18.6	3.9	0.0 3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fab 25	1.8	2.9	3.7	3.9	12.3	3.9	3.7 4.4	3.3 4.7	2.9	13.8	2.8	2.8	2.6	2.4	10.7
Fab8A	0.1	0,3	0.4	0.4	1.2	0,3	0.3	0.3	4.5	17.5	3.9	3.8	3,8	3.6	15.1
Fab8B	0.3	0.6	0.8	1.0	2.7	1.3	1.4	1.6	0.3	1.3	0.3	0.3	0.3	0.3	1.3
SONY	0.6	0.4	0.2	0.1	1.3	0.0	0.0	0.0	1.7	5.9	1.8	2.0	2.0	2.2	8.0
LATTICE	6.8	6.7	6.7	6.7					0.0	0.0	0,0	0.0	0.0	0.0	0.0
FAB 14/15	6.7	6.7	6.7	6.7	27.1	6.7	6.7	6.7	6.7	27.0	6.7	6.7	6.7	6.7	27.0
Fab 25	0.7	0.0	0.0	0.7	27.0	6.7	6.7	6.7	6.7	27.0	6.7	6.7	6.7	6.7	27.0
LEGERITY					0.1	0.0	0.0	0.0	0.0	0.0	0,0	0.0	0.0	0.0	0.0
FAB 14/15	19.4 19.4	19.7	20.5	20.6	80.1	21.1	23.4	24.9	25.4	94.8	25.9	26.9	27.9	28.7	109.5
		19.7	20.5	20,6	80.1	21.1	23.4	24.9	25.4	94.8	25.9	26.9	27.9	28.7	109.5
NPD	8.1	8.3	8.1	8.0	32.5	6.5	6.5	6.3	6.3	25.6	6.1	6.1	6.3	6.3	
FAB 14/15	7.4	7.2	7.0	6.8	28.4	5.4	5.4	5.0	5.0	20.7	4.4	4.4	4.1	4.1	24.9
Fab8A	0.7	1.0	1.0	1.1	3.9	0.9	0.9	0.9	0.9	3.5	0.7	0.7	0.7	0.7	16.9 2.9
Fab8B	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.4	0.4	0.9	0.9	0.9	1.4	1.4	
TSMC	0.0	0.1	0.1	0.1	0.3	0.1	0.1	0.1	0.1	0.5	0.1	0.1	0.1	0.1	4.7 0.4
NVD	102.4	105.8	115.7	129.7	453.6	128.5	138.6	153.8	175.5	596.3	192.0				
FAB 14/15	3.9	3.0	3.9	3.8	14.6	2.8	2.9	3.0	2.9	11.5	2.8	209.8	232.4	244.9	879.0
FASL - GMD	8.7	10.7	14.3	24.2	57.9	27.0	25.8	27.8	36.0	116.6	38.5	2.8 41.2	2.8	2.8	11.2
FASL - IWATE	17.0	16.3	16.6	17.6	67.5	15.1	14.5	13.4	14.0	57.0	17.1	41.2 17.9	44.1	46.7	170.5
FASL 1	45.0	44.7	47.3	48.0	185.0	48.0	45.6	45.6	45.6	184.8	39.0	41.2	18.9	18.9	72.6
FASL 2	27.9	31.1	33.6	35.6	128.1	35.7	36.9	37.7	40.4	150.6	43.0	42.3	44.8	44.9	169.8
FASL 3	0.0	0.0	0.0	0.5	0.5	0.0	12.9	26.3	36.2	75.4	46.2	42.3 48.5	42.1	41.6	168.9
FASL 4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	5.5	46.3 16.0	51.9	52.3	198.8
PPD	9.4	11.3	9.9	6.7	37.2	7.1	6.2	7.2				1975-1	28.0	37.8	87.3
Fab8B	9.4	11.3	9.9	6.7	37.2	7.1	6.2	7.2 7.2	11.0	31.4	16.7	22.9	28.4	37.8	105.8
T' L FAB	239.2	249.5	267.8	276.1	1032.6	288.4	302.2	323.3	11.0	31.4	16.7	22.9	28.4	37.8	105.8
		- ·- ·-	40.10	- / V.1	1002.0	400.4	302,2	343.3	342.9	1256.8	346.1	368.4	402.6	428.8	1545.8